Release notes for ENDF/B Development electrons sublibrary



 $March\ 22,\ 2016$

FAILURE SUMMARY

No FAILURES found!

ERROR SUMMARY

fudge-4.0 Calculated and tabulated thresholds don't agree: e-001_H_000.endf, e-002_He_000.endf, e-003_Li_000.endf, e-004_Be_000.endf, e-005_B_000.endf, e-006_C_000.endf, e-007_N_000.endf, e-008_0_000.endf, e-009_F_000.endf, e-010_Ne_000.endf, e-011_Na_000.endf, e-012_Mg_000.endf, e-013_A1_000.endf, e-014_Si_000.endf, e-015_P_000.endf, e-016_S_000.endf, e-017_Cl_000.endf, e-018_Ar_000.endf, e-019_K_000.endf, e-020_Ca_000.endf, e-021_Sc_000.endf, $e-022_Ti_000.endf,\ e-023_V_000.endf,\ e-024_Cr_000.endf,\ e-025_Mn_000.endf,\ e-026_Fe_000.endf,\ e-027_Co_000.endf,\ e-028_Co_000.endf,\ e-028$ e-028_Ni_000.endf, e-029_Cu_000.endf, e-030_Zn_000.endf, e-031_Ga_000.endf, e-032_Ge_000.endf, e-033_As_000.endf, e-034_Se_000.endf, e-035_Br_000.endf, e-036_Kr_000.endf, e-037_Rb_000.endf, e-038_Sr_000.endf, e-039_Y_000.endf, e-040_Zr_000.endf, e-041_Nb_000.endf, e-042_Mo_000.endf, e-043_Tc_000.endf, e-044_Ru_000.endf, e-045_Rh_000.endf, e-046_Pd_000.endf, e-047_Ag_000.endf, e-048_Cd_000.endf, e-049_In_000.endf, e-050_Sn_000.endf, e-051_Sb_000.endf, e-052_Te_000.endf, e-053_I_000.endf, e-054_Xe_000.endf, e-055_Cs_000.endf, e-056_Ba_000.endf, e-057_La_000.endf, e-058_Ce_000.endf, e-059_Pr_000.endf, e-060_Nd_000.endf, e-061_Pm_000.endf, e-062_Sm_000.endf, e-063_Eu_000.endf, $e-064_Gd_000.endf,\ e-065_Tb_000.endf,\ e-066_Dy_000.endf,\ e-067_Ho_000.endf,\ e-068_Er_000.endf,\ e-069_Tm_000.endf,\ e-06$ e-070_Yb_000.endf, e-071_Lu_000.endf, e-072_Hf_000.endf, e-073_Ta_000.endf, e-074_W_000.endf, e-075_Re_000.endf, e-076_0s_000.endf, e-077_Ir_000.endf, e-078_Pt_000.endf, e-079_Au_000.endf, e-080_Hg_000.endf, e-081_Tl_000.endf, e-082_Pb_000.endf, e-083_Bi_000.endf, e-084_Po_000.endf, e-085_At_000.endf, e-086_Rn_000.endf, e-087_Fr_000.endf, e-088_Ra_000.endf, e-089_Ac_000.endf, e-090_Th_000.endf, e-091_Pa_000.endf, e-092_U_000.endf, e-093_Np_000.endf, e-094_Pu_000.endf, e-095_Am_000.endf, e-096_Cm_000.endf, e-097_Bk_000.endf, e-098_Cf_000.endf, e-099_Es_000.endf, e-100_Fm_000.endf,

WARNING SUMMARY

fudge-4.0 FIXME: Generic fudge unimplemented message: e-001_H_000.endf, e-002_He_000.endf, e-003_Li_000.endf, e-004_Be_000.endf, e-005_B_000.endf, e-006_C_000.endf, e-007_N_000.endf, e-008_0_000.endf, e-009_F_000.endf, e-010_Ne_000.endf, e-011_Na_000.endf, e-012_Mg_000.endf, e-013_Al_000.endf, e-014_Si_000.endf, e-015_P_000.endf, e-016_S_000.endf, e-017_C1_000.endf, e-018_Ar_000.endf, e-019_K_000.endf, e-020_Ca_000.endf, e-021_Sc_000.endf, e-022_Ti_000.endf, e-023_V_000.endf, e-024_Cr_000.endf, e-025_Mn_000.endf, e-026_Fe_000.endf, e-027_Co_000.endf, e-028_Ni_000.endf, e-029_Cu_000.endf, e-030_Zn_000.endf, e-031_Ga_000.endf, e-032_Ge_000.endf, e-033_As_000.endf, e-034_Se_000.endf, e-035_Br_000.endf, e-036_Kr_000.endf, e-037_Rb_000.endf, e-038_Sr_000.endf, e-039_Y_000.endf, e-040_Zr_000.endf, e-041_Nb_000.endf, e-042_Mo_000.endf, e-043_Tc_000.endf, e-044_Ru_000.endf, e-045_Rh_000.endf, e-046_Pd_000.endf, e-047_Ag_000.endf, e-048_Cd_000.endf, e-049_In_000.endf, e-050_Sn_000.endf, e-051_Sb_000.endf, e-052_Te_000.endf, e-053_I_000.endf, e-054_Xe_000.endf, e-055_Cs_000.endf, e-056_Ba_000.endf, e-057_La_000.endf, e-058_Ce_000.endf, e-059_Pr_000.endf, e-060_Nd_000.endf, e-061_Pm_000.endf, e-062_Sm_000.endf, e-063_Eu_000.endf, e-064_Gd_000.endf, e-065_Tb_000.endf, e-066_Dy_000.endf, e-067_Ho_000.endf, e-068_Er_000.endf, e-069_Tm_000.endf, e-070_Yb_000.endf, e-071_Lu_000.endf, e-072_Hf_000.endf, e-073_Ta_000.endf, e-074_W_000.endf, e-075_Re_000.endf, e-076_0s_000.endf, e-077_Ir_000.endf, e-078_Pt_000.endf, e-079_Au_000.endf, e-080_Hg_000.endf, e-081_Tl_000.endf, e-082_Pb_000.endf, e-083_Bi_000.endf, e-084_Po_000.endf, e-085_At_000.endf, e-086_Rn_000.endf, e-087_Fr_000.endf, e-088_Ra_000.endf, e-089_Ac_000.endf, e-090_Th_000.endf, e-091_Pa_000.endf, e-092_U_000.endf, e-093_Np_000.endf, e-094_Pu_000.endf, e-095_Am_000.endf, e-096_Cm_000.endf, e-097_Bk_000.endf, e-098_Cf_000.endf, e-099_Es_000.endf, e-100 Fm 000.endf.

fudge-4.0 Mislabled emitted particle: e-001_H_000.endf, e-002_He_000.endf, e-003_Li_000.endf, e-004_Be_000.endf, e-005_B_000.endf, e-006_C_000.endf, e-007_N_000.endf, e-008_0_000.endf, e-009_F_000.endf, e-010_Ne_000.endf, e-011_Na_000.endf, e-012_Mg_000.endf, e-013_A1_000.endf, e-014_Si_000.endf, e-015_P_000.endf, e-016_S_000.endf, $e-017_C1_000.endf,\ e-018_Ar_000.endf,\ e-019_K_000.endf,\ e-020_Ca_000.endf,\ e-021_Sc_000.endf,\ e-022_Ti_000.endf,\ e-020_Ti_000.endf,\ e-020$ e-023_V_000.endf, e-024_Cr_000.endf, e-025_Mn_000.endf, e-026_Fe_000.endf, e-027_Co_000.endf, e-028_Ni_000.endf, e-029_Cu_000.endf, e-030_Zn_000.endf, e-031_Ga_000.endf, e-032_Ge_000.endf, e-033_As_000.endf, e-034_Se_000.endf, e-035_Br_000.endf, e-036_Kr_000.endf, e-037_Rb_000.endf, e-038_Sr_000.endf, e-039_Y_000.endf, e-040_Zr_000.endf, e-041_Nb_000.endf, e-042_Mo_000.endf, e-043_Tc_000.endf, e-044_Ru_000.endf, e-045_Rh_000.endf, e-046_Pd_000.endf, e-047_Ag_000.endf, e-048_Cd_000.endf, e-049_In_000.endf, e-050_Sn_000.endf, e-051_Sb_000.endf, e-052_Te_000.endf, e-053_I_000.endf, e-054_Xe_000.endf, e-055_Cs_000.endf, e-056_Ba_000.endf, e-057_La_000.endf, e-058_Ce_000.endf, e-059_Pr_000.endf, e-060_Nd_000.endf, e-061_Pm_000.endf, e-062_Sm_000.endf, e-063_Eu_000.endf, e-064_Gd_000.endf, e-065_Tb_000.endf, e-066_Dy_000.endf, e-067_Ho_000.endf, e-068_Er_000.endf, e-069_Tm_000.endf, e-070_Yb_000.endf, e-071_Lu_000.endf, e-072_Hf_000.endf, e-073_Ta_000.endf, e-074_W_000.endf, e-075_Re_000.endf, e-076_0s_000.endf, e-077_Ir_000.endf, e-078_Pt_000.endf, e-079_Au_000.endf, e-080_Hg_000.endf, e-081_Tl_000.endf, e-082_Pb_000.endf, e-083_Bi_000.endf, e-084_Po_000.endf, e-085_At_000.endf, e-086_Rn_000.endf, e-087_Fr_000.endf, e-088_Ra_000.endf, e-089_Ac_000.endf, e-090_Th_000.endf, e-091_Pa_000.endf, e-092_U_000.endf, e-093_Np_000.endf, e-094_Pu_000.endf,

xsectplotter Mislabled emitted particle: e-001_H_000.endf, e-002_He_000.endf, e-003_Li_000.endf, e-004_Be_000.endf, $e-005_B_000.endf, \ e-006_C_000.endf, \ e-007_N_000.endf, \ e-008_0_000.endf, \ e-009_F_000.endf, \ e-010_Ne_000.endf, \ e-010_Ne_000$ e-011_Na_000.endf, e-012_Mg_000.endf, e-013_A1_000.endf, e-014_Si_000.endf, e-015_P_000.endf, e-016_S_000.endf, e-017_Cl_000.endf, e-018_Ar_000.endf, e-019_K_000.endf, e-020_Ca_000.endf, e-021_Sc_000.endf, e-022_Ti_000.endf, e-023_V_000.endf, e-024_Cr_000.endf, e-025_Mn_000.endf, e-026_Fe_000.endf, e-027_Co_000.endf, e-028_Ni_000.endf, e-029_Cu_000.endf, e-030_Zn_000.endf, e-031_Ga_000.endf, e-032_Ge_000.endf, e-033_As_000.endf, e-034_Se_000.endf, e-035_Br_000.endf, e-036_Kr_000.endf, e-037_Rb_000.endf, e-038_Sr_000.endf, e-039_Y_000.endf, e-040_Zr_000.endf, e-041_Nb_000.endf, e-042_Mo_000.endf, e-043_Tc_000.endf, e-044_Ru_000.endf, e-045_Rh_000.endf, e-046_Pd_000.endf, e-047_Ag_000.endf, e-048_Cd_000.endf, e-049_In_000.endf, e-050_Sn_000.endf, e-051_Sb_000.endf, e-052_Te_000.endf, e-053_I_000.endf, e-054_Xe_000.endf, e-055_Cs_000.endf, e-056_Ba_000.endf, e-057_La_000.endf, e-058_Ce_000.endf, e-059_Pr_000.endf, e-060_Nd_000.endf, e-061_Pm_000.endf, e-062_Sm_000.endf, e-063_Eu_000.endf, e-064_Gd_000.endf, e-065_Tb_000.endf, e-066_Dy_000.endf, e-067_Ho_000.endf, e-068_Er_000.endf, e-069_Tm_000.endf, e-070_Yb_000.endf, e-071_Lu_000.endf, e-072_Hf_000.endf, e-073_Ta_000.endf, e-074_W_000.endf, e-075_Re_000.endf, e-076_0s_000.endf, e-077_Ir_000.endf, e-078_Pt_000.endf, e-079_Au_000.endf, e-080_Hg_000.endf, e-081_T1_000.endf, e-082_Pb_000.endf, e-083_Bi_000.endf, e-084_Po_000.endf, e-085_At_000.endf, e-086_Rn_000.endf, e-087_Fr_000.endf, e-088_Ra_000.endf, e-089_Ac_000.endf, e-090_Th_000.endf, e-091_Pa_000.endf, e-092_U_000.endf, e-093_Np_000.endf, e-094_Pu_000.endf, e-095_Am_000.endf, e-096_Cm_000.endf, e-097_Bk_000.endf, e-098_Cf_000.endf, e-099_Es_000.endf, e-100_Fm_000.endf,

e-095_Am_000.endf, e-096_Cm_000.endf, e-097_Bk_000.endf, e-098_Cf_000.endf, e-099_Es_000.endf, e-100_Fm_000.endf,

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-001_H_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + H + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + H [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + H [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + H + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + H [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13.61 eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + H1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13.61 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

 ${\tt stderr} \ {\tt while} \ {\tt processing} \ {\tt crossSection}$

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

 $_$ e-002_He_000.endf $_$

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-002_He_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + He + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + He [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + He [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + He + gamma \ [bremsstrahlung] \ / \ Cross \ section$: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + He [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23.42 eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: $e^- + e^- + He^{1s1/2}$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23.42 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

_e-003_Li_000.endf _____

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-003_Li_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Li + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Li [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Li [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Li + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Li [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: $e^- + e^- + Li1s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 59.85 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Li2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.5 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-004_Be_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Be + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Be [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Be [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Be + gamma$ [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Be [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: $e^- + e^- + Be^- 131/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 118.36 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Be2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.18 eV!

• xsectplotter Warnings:

1. Mislabled emitted particle Error: ZAP messed up WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

 $_$ e-005 $_$ B $_$ 000.endf $_$

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-005_B_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + B + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + B [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + B [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + B + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + B [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + B1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 195.61 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + B2s1/2 / Cross section: (Error # 0): Threshold mismatch

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + B2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.67 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + B2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.66 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

 $_$ e-006_C_000.endf $_$

- fudge-4.0 Warnings:
 - Mislabled emitted particle Reading ENDF file: ../e-006_C_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + C + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + C [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + C [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + C + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + C [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + C1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 291.01 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + C2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 17.56 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + C2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.99 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + C2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.98 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

__e-007_N_000.endf _____

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-007_N_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + N + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + N [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + N [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + N + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + N [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.48 eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + N1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 404.85 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + N2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23.1 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + N2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.5 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + N2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.48 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

 $_{\rm e}$ -008_0_000.endf $_{\rm e}$

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-008_O_000.endf (Error # 0): ZAP messed up

```
WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0
```

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + O + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + O [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + O [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + O + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + O [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14.15 eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + O1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 537.28 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + O2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 29.23 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + O2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14.19 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + O2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14.15 eV!

• xsectplotter Warnings:

1. Mislabled emitted particle Error: ZAP messed up WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

 $_$ e-009 $_$ F $_$ 000.endf $_$

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-009_F_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + F + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + F [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + F [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + F + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + F [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 16.98 eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + F1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 688.37 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + F2s1/2 / Cross section: (Error # 0): Threshold mismatch

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + F2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 17.05 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + F2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 16.98 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

__e-010_Ne_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-010_Ne_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Ne + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Ne [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Ne [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Ne + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Ne [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 19.96 eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Ne1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 858.179999999999 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Ne2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 43.23 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Ne2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 20.08 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Ne2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 19.96 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

__e-011_Na_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-011_Na_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Na + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Na [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: $e^- + Na$ [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Na + gamma$ [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Na [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Na1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1064. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Na2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 64.48 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Na2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 36.42 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Na2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 36.22 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: $e^- + e^- + Na3s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.15 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

 ${\tt stderr} \ {\tt while} \ {\tt processing} \ {\tt crossSection}$

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

 $_$ e-012 $_$ Mg $_$ 000.endf $_$

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-012_Mq_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Mg + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Mq [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Mg [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Mg + gamma$ [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Mg [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Mg1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1294.5 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Mg2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 89.459999999999 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Mq2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 56.55 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Mg2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 56.24 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Mg3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.89 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

__e-013_Al_000.endf ___

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-013_Al_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Al + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Al [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Al [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Al + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Al [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Al1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1549.9 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Al2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 119.05 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Al2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 81.2 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Al2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 80.73 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Al3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.16 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Al3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.88 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Al3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.87 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

__e-014_Si_000.endf ____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-014_Si_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Si + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Si [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Si [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Si + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Si [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Si1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1828.5 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + Si2s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 151.55 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Si2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 108.67 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Si2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 107.98 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Si3s1/2 / Cross section: (Error # 0): Threshold mismatch

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Si3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.55 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Si3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.52 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

 $_$ e-015_P_000.endf $_$

- fudge-4.0 Warnings:
 - Mislabled emitted particle Reading ENDF file: ../e-015_P_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + P + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + P [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + P [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + P + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

- 3. Calculated and tabulated thresholds don't agree reaction label 2: e- + P [excitation] / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV! 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + P1s1/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2130.4 eV! 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + P2s1/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 187.15 eV! 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + P2p1/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 139.14 eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: $e^+ + e^- + P2p3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 138.18 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + P3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 17.21 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: $e^+ + e^- + P3p1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.380000000000001 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + P3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.33 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

____e-016_S_000.endf ____

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-016_S_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + S + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + S [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + S [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + S + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + S [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.25 eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + S1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2455.9 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + S2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 225.97 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + S2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 172.73 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: $e^- + e^- + \frac{S2p3}{2}$ / Cross section: (Error # 0): Threshold mismatch

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + S3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 20.95 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + S3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.34 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + S3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.25 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

__e-017_Cl_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-017_Cl_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Cl + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Cl [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Cl [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Cl + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Cl [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12.29 eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Cl1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2804.9 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Cl2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 268.05 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Cl2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 209.48 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Cl2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 207.7 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Cl3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 24.84 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Cl3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12.42 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Cl3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12.29 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

 ${\tt stderr} \ {\tt while} \ {\tt processing} \ {\tt crossSection}$

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-018_Ar_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Ar + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Ar [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Ar [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Ar + gamma$ [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Ar [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14.43 eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Ar1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3177.6 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Ar2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 313.43 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Ar2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 249.43 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Ar2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 247.09 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Ar3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 28.92 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Ar3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14.62 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Ar3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14.43 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

____e-019_K_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-019_K_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + K + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + K [excitation] / Product: e- (Error # 0): Generic unimp (c)

 ${\tt WARNING:} \ \ {\tt Checking} \ \ {\tt not} \ \ {\tt yet} \ \ {\tt implemented} \ \ {\tt for} \ \ {\tt energyLoss} \ \ {\tt type} \ \ {\tt data}$

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + K [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

- 2. Calculated and tabulated thresholds don't agree reaction label 1: e- + K + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
- 3. Calculated and tabulated thresholds don't agree reaction label 2: e- + K [excitation] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
- 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + K1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3583.3 eV!
- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + K2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 371.16 eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: $e^- + e^- + K2p1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 301.65 eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + K2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 298.64 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + K3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 40.5 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + K3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23.75 eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23.47 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + K4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.22 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

_e-020_Ca_000.endf _____

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-020_Ca_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Ca + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Ca [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Ca [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Ca + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Ca [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Ca1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4015. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Ca2s1/2 / Cross section: (Error # 0): Threshold mismatch

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Ca2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 359.04 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Ca2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 355.2 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Ca3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 53.16 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Ca3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 34.01 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Ca3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 33.6 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Ca4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.45 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

_e-021_Sc_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-021_Sc_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Sc + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- 3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Sc [excitation] / Product: e- (Error # 0): Generic unimp (c)
 - WARNING: Checking not yet implemented for energyLoss type data
- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Sc [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
 - 2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Sc + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
 - 3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Sc [excitation] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
 - 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Sc1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4465.8 eV!
 - 5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + Sc2s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 494.29 eV!
 - 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Sc2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 413.68 eV!
 - 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Sc2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 408.86 eV!
 - 8. Calculated and tabulated thresholds don't agree reaction label 7: $e^- + e^- + Sc3s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 60.91 eV!
 - 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Sc3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 39.6 eV!
 - 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Sc3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 39.06 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Sc3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.08 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Sc3d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.04 eV!

13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Sc4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.9 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

__e-022_Ti_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-022_Ti_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Ti + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Ti [excitation] / Product: e- (Error # 0): Generic unimp (c)

 ${\tt WARNING:} \ \ {\tt Checking} \ \ {\tt not} \ \ {\tt yet} \ \ {\tt implemented} \ \ {\tt for} \ \ {\tt energyLoss} \ \ {\tt type} \ \ {\tt data}$

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Ti [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Ti + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Ti [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Ti1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4940.6 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Ti2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 557.4400000000001 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Ti2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 471.22 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Ti2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 465.24 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Ti3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 68.61 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Ti3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 45.1 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Ti3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 44.42 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Ti3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.39000000000001 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Ti3d5/2 / Cross section: (Error # 0): Threshold mismatch

13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Ti4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.28 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

_____e-023_V_000.endf ____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-023_V_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + V + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + V [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + V [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + V + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: $e^- + V$ [excitation] / Cross section: (Error # 0): Threshold mismatch

- 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + V1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5439.6 eV!
- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + V2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 623.79 eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + V2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 531.88 eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + V2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 524.54 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + V3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 76.42 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + V3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 50.65 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + V3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 49.79 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + V3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.6099999999999 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: $e^- + e^- + V3d5/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.5299999999999 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: $e^- + e^- + V4s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.63 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

_e-024_Cr_000.endf _____

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-024_Cr_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Cr + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Cr [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Cr [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Cr + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Cr [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Cr1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5957.6 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Cr2s1/2 / Cross section: (Error # 0): Threshold mismatch

- 6. Calculated and tabulated thresholds don't agree reaction label 5: e-+e-+ Cr2p1/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 589.74 eV! 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Cr2p3/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 580.809999999999 eV! 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Cr3s1/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 79.19 eV! 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Cr3p1/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 51.25 eV! 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Cr3p3/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 50.2 eV! 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Cr3d3/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.46 eV! 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Cr3d5/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.37 eV! 13. Calculated and tabulated thresholds don't agree reaction label 12: $e^{-} + e^{-} + Cr4s1/2$ / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.96 eV! • xsectplotter Warnings: 1. Mislabled emitted particle Error: ZAP messed up stderr while processing crossSection WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines] ____e-025_Mn_000.endf _____
- fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-025_Mn_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Mn + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Mn [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Mn [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Mn + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Mn [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: $e^- + e^- + Mn1s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6510.9 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Mn2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 766.47 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Mn2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 662.97 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Mn2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 652.22 eV!

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 92.58 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Mn3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 62.09 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Mn3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 60.78 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Mn3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.85 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Mn3d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.72 eV!

13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Mn4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.25 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

_e-026_Fe_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-026_Fe_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Fe + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- 3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Fe [excitation] / Product: e- (Error # 0): Generic unimp (c)
 - WARNING: Checking not yet implemented for energyLoss type data
- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Fe [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
 - 2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Fe + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
 - 3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Fe [excitation] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
 - 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Fe1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7083.4 eV!
 - 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Fe2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 842.96 eV!
 - 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Fe2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 733.55 eV!
 - 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Fe2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 720.690000000001 eV!
 - 8. Calculated and tabulated thresholds don't agree reaction label 7: $e^- + e^- + Fe3s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 101.01 eV!
 - 9. Calculated and tabulated thresholds don't agree reaction label 8: $e^- + e^- + Fe3p1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 68.04000000000001 eV!
 - 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Fe3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 66.45 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Fe3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12.91 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Fe3d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12.74 eV!

13. Calculated and tabulated thresholds don't agree reaction label 12: e-+e-+Fe4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.53 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

__e-027_Co_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-027_Co_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Co + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Co [excitation] / Product: e- (Error # 0): Generic unimp (c)

 ${\tt WARNING: \ Checking \ not \ yet \ implemented \ for \ energyLoss \ type \ data}$

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Co [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Co + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Co [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Co1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7680.7 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Co2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 922.95 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Co2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 807.54 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Co2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 792.29 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Co3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 109.69 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Co3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 74.17 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Co3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 72.26000000000001 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Co3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13.93 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: $e^- + e^- + Co3d5/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13.72 eV!

13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Co4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.81 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

____e-028_Ni_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-028_Ni_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Ni + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Ni [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Ni [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Ni + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Ni [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

- 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Ni1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8302.79999999999 eV!
- 5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + Ni2s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1006.5 eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Ni2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 884.98 eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Ni2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 867.02 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Ni3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 118.64 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Ni3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 80.48 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Ni3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 78.209999999999 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Ni3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14.92 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Ni3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14.66 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Ni4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.09 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

_e-029_Cu_000.endf _____

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-029_Cu_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Cu + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Cu [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Cu [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Cu + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Cu [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: $e^- + e^- + Cu1s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8943.200000000001 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Cu2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1086.1 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e-+e-+ Cu2p1/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 958.53 eV! 7. Calculated and tabulated thresholds don't agree reaction label 6: $e^- + e^- + Cu2p3/2$ / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 937.49 eV! 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Cu3s1/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 121.26 eV! 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Cu3p1/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 80.5 eV! 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Cu3p3/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 77.86 eV! 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Cu3d3/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.09 eV! 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Cu3d5/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.800000000000000 eV! 13. Calculated and tabulated thresholds don't agree reaction label 12: $e^- + e^- + Cu4s1/2$ / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.11 eV! • xsectplotter Warnings: 1. Mislabled emitted particle Error: ZAP messed up stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

____e-030_Zn_000.endf _____

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-030_Zn_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Zn + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Zn [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Zn [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Zn + gamma$ [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Zn [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: $e^- + e^- + Zn1s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9622.4 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + Zn2s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1184.4 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Zn2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1050.5 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Zn2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1026. eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: $e^- + e^- + Zn3s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 137.43 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Zn3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 93.739999999999 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Zn3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 90.59 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: $e^- + e^- + Zn^3d^3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 16.85 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: $e^- + e^- + Zn3d5/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 16.46 eV!

13. Calculated and tabulated thresholds don't agree reaction label 12: $e^- + e^- + Zn4s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.6099999999999 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

_e-031_Ga_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-031_Ga_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Ga + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- 3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Ga [excitation] / Product: e- (Error # 0): Generic unimp (c)
 - WARNING: Checking not yet implemented for energyLoss type data
- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Ga [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
 - 2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Ga + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
 - 3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Ga [excitation] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
 - 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Ga1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10331. eV!
 - 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Ga2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1290.7 eV!
 - 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Ga2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1150.4 eV!
 - 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Ga2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1122. eV!
 - - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 157.75 eV!
 - 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Ga3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 111.01 eV!
 - 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Ga3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 107.28 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Ga3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 27.37 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Ga3d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 26.87 eV!

13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Ga4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.69 eV!

14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Ga4p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5. eV!

15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Ga4p3/2 / $Cross\ section$: (Error $\#\ 0$): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.88 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

__e-032_Ge_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-032_Ge_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Ge + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Ge [excitation] / Product: e- (Error # 0): Generic unimp (c)

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Ge [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Ge + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Ge [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: $e^- + e^- + Ge1s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11067. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Ge2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1402.3 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Ge2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1255.4 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Ge2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1222.8 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Ge3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 179.25 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Ge3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 129.38 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Ge3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 124.98 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Ge3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 38.82 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Ge3d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 38.19 eV!

13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Ge4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14.78 eV!

14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Ge4p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.5 eV!

15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Ge4p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.29 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

__e-033_As_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-033_As_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + As + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + As [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + As [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + As + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + As [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + As1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11829. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + As2s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1519.2 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + As2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1365.7 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + As2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1328.3 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: $e^- + e^- + As3s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 202.02 eV!

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 148.95 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + As3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 143.78 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + As3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 51.32 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + As3d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 50.55 eV!

13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + As4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 17.86 eV!

14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + As4p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.1199999999999 eV!

15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + As4p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.81 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

___e-034_Se_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-034_Se_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Se + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Se [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Se [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Se + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Se [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Se1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12619. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Se2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1641.5 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Se2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1481.2 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: $e^- + e^- + Se2p3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1438.6 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: $e^- + e^- + Se^3s^{1/2} / Cross\ section$: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 226.1 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: $e^- + e^- + Se3p1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 169.77 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + $Se^3p^3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 163.71 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Se3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 64.91 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Se3d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 63.97 eV!

13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Se4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 20.99 eV!

14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Se4p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.82 eV!

15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Se4p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.4 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

__e-035_Br_000.endf _____

- fudge-4.0 Warnings:
 - Mislabled emitted particle Reading ENDF file: ../e-035_Br_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Br + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Br [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Br [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Br + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Br [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.03 eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Br1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13435. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Br2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1769.2 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Br2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1602.1 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Br2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1553.6 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Br3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 251.49 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Br3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 191.82 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Br3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 184.78 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: $e^- + e^- + Br3d3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 79.59 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Br3d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 78.45 eV!

13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Br4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 24.18 eV!

14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Br4p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.59 eV!

15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Br4p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.03 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

__e-036_Kr_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-036_Kr_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Kr + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Kr [excitation] / Product: e- (Error # 0): Generic unimp (c)

 ${\tt WARNING: \ Checking \ not \ yet \ implemented \ for \ energyLoss \ type \ data}$

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Kr [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Kr + gamma$ [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Kr [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12.72 eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Kr1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14280. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Kr2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1902.3 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Kr2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1728.3 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Kr2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1673.4 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Kr3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 278.17 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Kr3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 215.12 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Kr3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 206.96 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Kr3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 95.349999999999 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: $e^- + e^- + Kr3d5/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 93.98 eV!

13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Kr4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 27.44 eV!

14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Kr4p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13.43 eV!

15. Calculated and tabulated thresholds don't agree reaction label 14: $e^- + e^- + Kr4p3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12.72 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

__e-037_Rb_000.endf ______

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-037_Rb_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Rb + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Rb [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Rb [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Rb + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Rb [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Rb1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 15159. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + Rb2s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2048. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Rb2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1867.1 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Rb2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1805.1 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Rb3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 313.18 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Rb3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 246.69 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Rb3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 237.29 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Rb3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 119.2 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Rb3d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 117.57 eV!

13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Rb4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 36.72 eV!

14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Rb4p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 20.73 eV!

15. Calculated and tabulated thresholds don't agree reaction label 14: $e^- + e^- + Rb4p3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 19.75 eV!

16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Rb5s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.02 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

__e-038_Sr_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-038_Sr_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Sr + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Sr [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Sr [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Sr + gamma$ [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Sr [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Sr1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 16067. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Sr2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2200.1 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Sr2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2012.1 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Sr2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1942.4 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Sr3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 350.32 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Sr3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 280.32 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Sr3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 269.53 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Sr3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 144.93 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Sr3d5/2 / $Cross\ section$: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 143.01 eV!

13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Sr4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 46.39 eV!

14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Sr4p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 28.47 eV!

15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Sr4p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 27.2 eV!

16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Sr5s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.1 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

____e-039_Y_000.endf __

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-039_Y_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Y + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Y [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Y [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Y + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Y [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Y1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.7e4 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Y2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2354.9 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Y2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2159.7 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Y2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2081.5 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: $e^- + e^- + \frac{Y3s1}{2} / Cross\ section$: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 385.79 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: $e^- + e^- + Y^3p1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 312.26 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Y3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 299.92 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Y3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 168.74 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Y3d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 166.51 eV!

13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Y4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 53.35 eV!

14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Y4p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 33.71 eV!

15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Y4p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 32.14 eV!

16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Y4d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.24 eV!

17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Y4d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.13 eV!

18. Calculated and tabulated thresholds don't agree reaction label 17: $e^- + e^- + Y5s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.68 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

__e-040_Zr_000.endf _____

- fudge-4.0 Warnings:
 - Mislabled emitted particle Reading ENDF file: ../e-040_Zr_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Zr + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Zr [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: $e^- + Zr$ [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Zr + gamma$ [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Zr [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Zr1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 17962. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + Zr2s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2514.6 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: $e^- + e^- + Zr2p1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2312.2 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: $e^- + e^- + Zr2p3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2224.8 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Zr3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 422.06 eV!

- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Zr3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 344.93 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Zr3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 330.88 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Zr3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 193.09 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Zr3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 190.49 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Zr4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 59.96 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Zr4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 38.63 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: $e^- + e^- + Zr4p3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 36.74 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Zr4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.67 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Zr4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.52 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: $e^- + e^- + Zr5s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.12 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

_e-041_Nb_000.endf _____

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-041_Nb_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Nb + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Nb [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Nb [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Nb + gamma$ [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Nb [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Nb1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 18948. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Nb2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2676.3 eV!

- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Nb2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2466.6 eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Nb2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2369.1 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Nb3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 455.98 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Nb3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 375.22 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e-+e-+Nb3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 359.28 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Nb3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 214.82 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Nb3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 211.81 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Nb4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 63.45 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Nb4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 40.58 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Nb4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 38.36 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Nb4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.94 eV!

17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Nb4d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.76 eV!

18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Nb5s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.73 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

__e-042_Mo_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-042_Mo_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Mo + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Mo [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Mo [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Mo + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

- 3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Mo [excitation] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
- 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Mo1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 19965. eV!
- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Mo2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2846.5 eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Mo2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2629.5 eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Mo2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2521. eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Mo3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 494.09 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Mo3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 409.64 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Mo3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 391.63 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Mo3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 240.45 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Mo3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 237. eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Mo4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 69.63 eV!

14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Mo4p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 45.07 eV!

15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Mo4p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 42.46 eV!

16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Mo4d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7. eV!

17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Mo4d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.77 eV!

18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Mo5s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.97 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

_e-043_Tc_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-043_Tc_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Tc + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Tc [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Tc [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Tc + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Tc [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: $e^- + e^- + Tc1s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 21012. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + Tc2s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3022.4 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Tc2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2797.9 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Tc2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2677.6 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: $e^- + e^- + Tc3s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 533.42 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Tc3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 445.24 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Tc3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 424.95 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Tc3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 267.01 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Tc3d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 263.07 eV!

13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Tc4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 75.8499999999999 eV!

14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Tc4p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 49.6 eV!

15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Tc4p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 46.55 eV!

16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Tc4d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.07 eV!

17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Tc4d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.78 eV!

18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Tc5s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.19 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

__e-044_Ru_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-044_Ru_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Ru + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Ru [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Ru [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Ru + gamma$ [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Ru [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Ru1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 22087. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + Ru2s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3203.9 eV!

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2971.8 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Ru2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2838.7 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Ru3s1/2 / Cross section: (Error # 0): Threshold mismatch

- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Ru3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 482.06 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e-+e-+Ru3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 459.29 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Ru3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 294.53 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Ru3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 290.05 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: $e^- + e^- + Ru4s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 82.14 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Ru4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 54.19 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Ru4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 50.66 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Ru4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.15 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Ru4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.7899999999999 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Ru5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.38 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

_e-045_Rh_000.endf _____

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-045_Rh_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Rh + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Rh [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Rh [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Rh + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Rh [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Rh1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23191. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Rh2s1/2 / Cross section: (Error # 0): Threshold mismatch

- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Rh2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3151.5 eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Rh2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3004.5 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Rh3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 615.95 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Rh3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 520.15 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Rh3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 494.66 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Rh3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 323.03 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Rh3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 317.96 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Rh4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 88.52 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Rh4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 58.84 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Rh4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 54.78 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Rh4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.24 eV!

17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Rh4d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.81 eV!

18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Rh5s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.56 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

__e-046_Pd_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-046_Pd_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Pd + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Pd [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Pd [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Pd + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

- 3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Pd [excitation] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
- 4. Calculated and tabulated thresholds don't agree reaction label 3: $e^- + e^- + Pd1s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 24321. eV!
- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Pd2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3580. eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Pd2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3332.6 eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Pd2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3170.6 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: $e^- + e^- + Pd3s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 654.9400000000001 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Pd3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 555.25 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Pd3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 526.8 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Pd3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 348.24 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: $e^- + e^- + Pd3d5/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 342.51 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Pd4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 91.01000000000000 eV!

14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Pd4p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 59.68 eV!

15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Pd4p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 55.09 eV!

16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Pd4d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.14000000000000 eV!

17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Pd4d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.67 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

__e-047_Ag_000.endf _____

- fudge-4.0 Warnings:
 - Mislabled emitted particle Reading ENDF file: ../e-047_Aq_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Ag + gamma [bremsstrahlung] / Product: <math>e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Ag [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Ag [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
- 2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Ag + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

- 3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Ag [excitation] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
- 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Ag1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 25489. eV!
- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Ag2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3783.4 eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3528.1 eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Ag2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3350. eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Ag3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 703.8 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Ag3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 600.190000000001 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Ag3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 568.53 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Ag3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 382.99 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Ag3d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 376.55 eV!

13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Ag4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 101.61 eV!

14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Ag4p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 68.41 eV!

15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Ag4p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 63.14 eV!

16. Calculated and tabulated thresholds don't agree reaction label 15: $e^- + e^- + Ag4d3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12.47 eV!

17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Ag4d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.86 eV!

18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Ag5s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.89 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

____e-048_Cd_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-048_Cd_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Cd + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Cd [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Cd [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Cd + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Cd [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: $e^- + e^- + Cd1s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 26688. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Cd2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3994.1 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Cd2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3730.9 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Cd2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3535.4 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Cd3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 755.37 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Cd3p1/2 / Cross section: (Error # 0): Threshold mismatch

- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Cd3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 612.63 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Cd3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 420.06 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Cd3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 412.86 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Cd4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 113.36 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: $e^- + e^- + Cd4p1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 78.22 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: $e^- + e^- + Cd4p3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 72.19 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Cd4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 17.71 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Cd4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 16.97 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Cd5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.220000000000001 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-049_In_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + In + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + In [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + In [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + In + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + In [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + In1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 27921. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + In2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4213.8 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + In2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3942.5 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + In2p3/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3728.4 eV!
```

- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + In3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 811.24 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + In3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 699.62 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + In3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 660.67 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: $e^- + e^- + In3d3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 461.04 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + In3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 453. eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + In4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 127.9 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + In4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 90.77 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + In4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 83.87 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + In4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 25.49 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + In4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 24.58 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + In5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.83 eV!

19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + In5p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.91 eV!

20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + In5p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.58 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

__e-050_Sn_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-050_Sn_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Sn + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Sn [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Sn [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Sn + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

- 3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Sn [excitation] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
- 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Sn1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 29184. eV!
- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Sn2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4440.3 eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Sn2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4160.8 eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Sn2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3926.8 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Sn3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 869.05 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Sn3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 753.36 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Sn3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 710.320000000001 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: $e^- + e^- + Sn^3d^3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 503.57 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Sn3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 494.62 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Sn4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 142.81 eV!

14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Sn4p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 103.64 eV!

15. Calculated and tabulated thresholds don't agree reaction label 14: $e^- + e^- + Sn4p3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 95.8 eV!

16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Sn4d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 33.49 eV!

17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Sn4d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 32.39 eV!

18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Sn5s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13.39 eV!

19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Sn5p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.28 eV!

20. Calculated and tabulated thresholds don't agree reaction label 19: $e^- + e^- + Sn5p3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.77 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

__e-051_Sb_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-051_Sb_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Sb + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Sb [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: $e^- + Sb$ [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Sb + gamma$ [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Sb [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Sb1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 30479. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + Sb2s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4673.7 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: $e^- + e^- + Sb2p1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4386. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Sb2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4130.5 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Sb3s1/2 / Cross section: (Error # 0): Threshold mismatch

- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Sb3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 809.16 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Sb3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 761.6900000000001 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Sb3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 547.79 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Sb3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 537.85 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Sb4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 158.27 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Sb4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 117.02 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: $e^- + e^- + Sb4p3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 108.12 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Sb4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 41.87 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Sb4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 40.56 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Sb5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 15.92 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Sb5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.73 eV!

20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Sb5p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.02 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

____e-052_Te_000.endf ____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-052_Te_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Te + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Te [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Te [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Te + T

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Te [excitation] / Cross section: (Error # 0): Threshold mismatch

- 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Te1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 31805. eV!
- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Te2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4914.2 eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Te2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4618.2 eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Te2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4339.7 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Te3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 991.08 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Te3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 867.09 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Te3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 814.85 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Te3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 593.74 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Te3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 582.74 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Te4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 174.33 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Te4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 130.97 eV!

15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Te4p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 120.92 eV!

16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Te4d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 50.71 eV!

17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Te4d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 49.18 eV!

18. Calculated and tabulated thresholds don't agree reaction label 17: $e^- + e^- + Te5s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 18.45 eV!

19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Te5p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.23 eV!

20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Te5p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.31 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

 $_e-053_I_000.endf$

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-053_I_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + I + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- 3. FIXME: Generic fudge unimplemented message reaction label 2: e- + I [excitation] / Product: e- (Error # 0): Generic unimp (c)
 - WARNING: Checking not yet implemented for energyLoss type data
- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + I [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
 - 2. Calculated and tabulated thresholds don't agree reaction label 1: e- + I + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
 - 3. Calculated and tabulated thresholds don't agree reaction label 2: e- + I [excitation] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
 - 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + I1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 33164. eV!
 - 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + 12s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5161.9 eV!
 - 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + I2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4857.5 eV!
 - 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + I2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4554.5 eV!
 - 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + 13s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1055.4 eV!
 - 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + I3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 927.2 eV!
 - 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + I3p3/2 / Cross section: (Error # 0): Threshold mismatch

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WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 869.809999999999 eV!
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- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + I3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 641.46 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + I3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 629.309999999999 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + I4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 191.04 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + I4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 145.53 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + I4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 134.21 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + I4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 60.04 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + I4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 58.26 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + I5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 21.01 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + I5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.77 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + I5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.630000000000000 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [2 more lines]

_e-054_Xe_000.endf _____

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-054_Xe_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Xe + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Xe [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Xe [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Xe + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Xe [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.96 eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Xe1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 34556. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Xe2s1/2 / Cross section: (Error # 0): Threshold mismatch

- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Xe2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5103.9 eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Xe2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4774.7 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Xe3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1122. eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Xe3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 989.47 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e-+e-+Xe3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 926.559999999999 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Xe3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 690.91 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Xe3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 677.52 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Xe4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 208.37 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Xe4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 160.69 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Xe4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 147.98 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Xe4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 69.84 eV!

17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Xe4d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 67.78 eV!

18. Calculated and tabulated thresholds don't agree reaction label 17: $e^- + e^- + Xe5s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23.61 eV!

19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Xe5p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12.35 eV!

20. Calculated and tabulated thresholds don't agree reaction label 19: $e^- + e^- + Xe^5p^3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.96 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [2 more lines]

__e-055_Cs_000.endf _____

- fudge-4.0 Warnings:
 - Mislabled emitted particle Reading ENDF file: ../e-055_Cs_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Cs + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Cs [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Cs [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
- 2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Cs + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Cs [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Cs1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 35985. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Cs2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5684.9 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Cs2p1/2 / $Cross\ section$: ($Error\ \#\ 0$): $Threshold\ mismatch$

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5363.2 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Cs2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5006.1 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Cs3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1196.4 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Cs3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1059.5 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Cs3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 990.679999999999 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: $e^- + e^- + Cs3d3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 747.7 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Cs3d5/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 732.98 eV!
```

13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Cs4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 231.86 eV!

14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Cs4p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 181.97 eV!

15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Cs4p3/2 / $Cross\ section$: (Error $\#\ 0$): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 167.76 eV!

16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Cs4d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 85.61 eV!

17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Cs4d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 83.239999999999 eV!

18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Cs5s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 30.97 eV!

19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Cs5p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 18.27 eV!

20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Cs5p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 16.43 eV!

21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Cs6s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3.69 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-056_Ba_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Ba + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Ba [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Ba [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Ba + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Ba [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Ba1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 37449. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Ba2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5960.8 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Ba2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5630.3 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Ba2p3/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5243.4 eV!
```

- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Ba3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1273.4 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Ba3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1132.2 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Ba3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1057. eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Ba3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 806.64 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Ba3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 790.49 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Ba4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 256.35 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Ba4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 204.21 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Ba4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 188.35 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Ba4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 102.16 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Ba4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 99.459999999999 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Ba5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 38.39 eV!

19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Ba5p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 24.3 eV!

20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Ba5p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 22. eV!

21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Ba6s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.64 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

__e-057_La_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-057_La_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + La + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + La [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + La [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + La + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + La [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + La1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 38943. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + La2s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6241.8 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + La2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5902.5 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + La2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5483.8 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + La3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1350.4 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + La3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1204.8 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + La3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1122.7 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + La3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 864.96 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + La3d5/2 / Cross section: (Error # 0): Threshold mismatch

- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + La4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 279.13 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + La4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 224.73 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: $e^- + e^- + La4p3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 207.07 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + La4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 116.83 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + La4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 113.76 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + La5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 43.65 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + La5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 28.33 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + La5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 25.59 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + La5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.58 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + La5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.34 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + La6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.14 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

____e-058_Ce_000.endf _____

• fudge-4.0 Warnings:

 Mislabled emitted particle Reading ENDF file: ../e-058_Ce_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Ce + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Ce [excitation] / Product: e- (Error # 0): Generic unimp (c)

 ${\tt WARNING: \ Checking \ not \ yet \ implemented \ for \ energyLoss \ type \ data}$

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Ce [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^-+Ce+gamma\ [bremsstrahlung]\ /\ Cross\ section$: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Ce [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Ce1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 40456. eV!

- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Ce2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6513.3 eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Ce2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6165.3 eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Ce2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5712.8 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Ce3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1409.9 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Ce3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1259.9 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Ce3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1170.5 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Ce3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 905.49 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Ce3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 886.14 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Ce4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 285.01 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Ce4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 228.58 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Ce4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 209.35 eV!

16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Ce4d3/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 115.79 eV! 17. Calculated and tabulated thresholds don't agree reaction label 16: $e^- + e^- + Ce4d5/2$ / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 112.44 eV! 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Ce4f5/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.85 eV! 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Ce4f7/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.51 eV! 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Ce5s1/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 41.75 eV! 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Ce5p1/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 26.35 eV! 22. Calculated and tabulated thresholds don't agree reaction label 21: e-+e-+Ce5p3/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23.59 eV! 23. Calculated and tabulated thresholds don't agree reaction label 22: $e^- + e^- + Ce6s1/2$ / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.81 eV! • xsectplotter Warnings: 1. Mislabled emitted particle Error: ZAP messed up stderr while processing crossSection WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines] ____e-059_Pr_000.endf _____

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-059_Pr_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Pr + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Pr [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Pr [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Pr + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Pr [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Pr1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 42010. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Pr2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6799.8 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Pr2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6442.9 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Pr2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5954.4 eV!

- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Pr3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1480.1 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Pr3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1325.7 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Pr3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1228.4 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Pr3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 955.98 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Pr3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 934.86 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Pr4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 299.25 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Pr4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 240.64 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Pr4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 219.56 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Pr4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 122.28 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Pr4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 118.59 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Pr4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.65 eV!

19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Pr4f7/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.24 eV!

20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Pr5s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 43.3 eV!

21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Pr5p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 27.26 eV!

22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Pr5p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 24.26 eV!

23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Pr6s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.89 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

__e-060_Nd_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-060_Nd_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Nd + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Nd [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Nd [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Nd + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Nd [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Nd1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 43597. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Nd2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7093.3 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Nd2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6727.4 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Nd2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6200.7 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Nd3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1551.8 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Nd3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1392.8 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Nd3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1287.1 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Nd3d3/2 / Cross section: (Error # 0): Threshold mismatch

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WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1007.3 eV!
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- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Nd3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 984.320000000001 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: $e^- + e^- + Nd4s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 313.58 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Nd4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 252.76 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Nd4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 229.72 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Nd4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 128.68 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Nd4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 124.62 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Nd4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.32 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Nd4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.85 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Nd5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 44.8 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: $e^- + e^- + Nd5p1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 28.12 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Nd5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 24.88 eV!

23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Nd6s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.96 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [4 more lines]

_____e-061_Pm_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-061_Pm_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Pm + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Pm [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Pm [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Pm + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Pm [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

- 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Pm1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 45219. eV!
- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Pm2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7394.1 eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Pm2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7019.2 eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Pm2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6451.9 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: $e^- + e^- + Pm3s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1625.1 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Pm3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1461.6 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Pm3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1346.9 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Pm3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1059.6 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Pm3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1034.6 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Pm4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 328.07 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Pm4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 265.01 eV!

- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Pm4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 239.87 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Pm4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 135.05 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Pm4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 130.59 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Pm4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.880000000000001 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Pm4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.35 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Pm5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 46.27 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Pm5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 28.96 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Pm5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 25.46 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Pm6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.03 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-062_Sm_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Sm + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Sm [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Sm [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Sm + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Sm [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Sm1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 46876. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Sm2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7702.3 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Sm2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7318.2 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Sm2p3/2 / Cross section: (Error # 0): Threshold mismatch

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WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6707.9 eV!
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- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Sm3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1700.1 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Sm3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1531.9 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Sm3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1407.7 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Sm3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1112.9 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Sm3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1085.8 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Sm4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 342.77 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Sm4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 277.43 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Sm4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 250.06 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Sm4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 141.4 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Sm4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 136.52 eV!

19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Sm4f7/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.75 eV!

20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Sm5s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 47.74 eV!

21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Sm5p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 29.79 eV!

22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Sm5p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 26.02 eV!

23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Sm6s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.09 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

__e-063_Eu_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-063_Eu_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Eu + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Eu [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Eu [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Eu + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Eu [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: $e^- + e^- + Eu1s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 48568. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + Eu2s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8018.1 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Eu2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7624.8 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Eu2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6968.8 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: $e^- + e^- + Eu3s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1776.9 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Eu3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1604. eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Eu3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1469.6 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Eu3d3/2 / Cross section: (Error # 0): Threshold mismatch

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WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1167.2 eV!
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- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Eu3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1137.8 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Eu4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 357.7 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Eu4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 290.05 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Eu4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 260.3 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Eu4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 147.76 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Eu4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 142.44 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Eu4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.77 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Eu4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.08 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e-+e-+Eu5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 49.21 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Eu5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 30.61 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Eu5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 26.56 eV!

23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Eu6s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.16 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

____e-064_Gd_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-064_Gd_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Gd + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Gd [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Gd [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Gd + gamma$ [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Gd [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

- 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Gd1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 50303. eV!
- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Gd2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8349.7999999999 eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e-+e-+Gd2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7947. eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Gd2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7242.7 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Gd3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1864.6 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Gd3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1686.9 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Gd3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1541.8 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Gd3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1231.6 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: $e^- + e^- + Gd3d5/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1199.8 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Gd4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 381.39 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: $e^- + e^- + Gd4p1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 311.3 eV!

- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Gd4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 278.86 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Gd4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 162.16 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e-+e-+Gd4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 156.3 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Gd4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 17.03 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: $e^- + e^- + Gd4f7/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 16.2 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Gd5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 54.66 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Gd5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 34.83 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: $e^- + e^- + Gd5p3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 30.18 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: $e^- + e^- + Gd5d3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.19 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Gd5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.85 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: $e^- + e^- + Gd6s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.71 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

____e-065_Tb_000.endf _____

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-065_Tb_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Tb + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Tb [excitation] / Product: e- (Error # 0): Generic unimp (c)

 ${\tt WARNING: \ Checking \ not \ yet \ implemented \ for \ energyLoss \ type \ data}$

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Tb [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^-+Tb+gamma~[bremsstrahlung]$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Tb [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Tb1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 52060. eV!

- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Tb2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8673.1 eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Tb2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8260.9 eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Tb2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7505.3 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Tb3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1935.8 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Tb3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1753.4 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Tb3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1596.8 eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1279. eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Tb3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1244.6 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Tb4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 388.39 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Tb4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 316. eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: $e^- + e^- + Tb4p3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 281.04 eV!

16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Tb4d3/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 160.59 eV! 17. Calculated and tabulated thresholds don't agree reaction label 16: $e^- + e^- + Tb4d5/2$ / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 154.29 eV! 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Tb4f5/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.39 eV! 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Tb4f7/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.5299999999999 eV! 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Tb5s1/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 52.17 eV! 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Tb5p1/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 32.24 eV! 22. Calculated and tabulated thresholds don't agree reaction label 21: e-+e-+Tb5p3/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 27.59 eV! 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Tb6s1/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.29 eV! • xsectplotter Warnings: 1. Mislabled emitted particle Error: ZAP messed up stderr while processing crossSection WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines] ____e-066_Dy_000.endf _____

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-066_Dy_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Dy + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Dy [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Dy [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Dy + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Dy [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: $e^- + e^- + Dy1s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 53861. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Dy2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9012.5 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Dy2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8590.700000000001 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Dy2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7781. eV!

- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Dy3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2018.2 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Dy3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1830.9 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Dy3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1662.1 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Dy3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1336.6 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Dy3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1299.5 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Dy4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 404.2 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Dy4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 329.38 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Dy4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 291.56 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Dy4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 167.07 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Dy4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 160.24 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Dy4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.62 eV!

19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Dy4f7/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.66 eV!

20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Dy5s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 53.67 eV!

21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Dy5p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 33.06 eV!

22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Dy5p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 28.09 eV!

23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Dy6s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.35 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

__e-067_Ho_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-067_Ho_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Ho + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Ho [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Ho [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Ho + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Ho [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Ho1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 55699. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Ho2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9360.200000000001 eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Ho2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8928.700000000001 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Ho2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8061.7 eV!

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2102.5 eV!

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1910.4 eV!

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1728.5 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Ho3d3/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1395.2 eV!
```

- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Ho3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1355.3 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: $e^- + e^- + Ho4s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 420.35 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Ho4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 343.05 eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 302.2 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Ho4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 173.63 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Ho4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 166.23 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Ho4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.8 eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.73 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Ho5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 55.19 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Ho5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 33.89 eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 28.58 eV!

23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Ho6s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.42 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

____e-068_Er_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-068_Er_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Er + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Er [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Er [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Er + gamma$ [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Er [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

- 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Er1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 57574. eV!
- 5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + Er2s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9716.200000000001 eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Er2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9274.79999999999 eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Er2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8347.4 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Er3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2188.9 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Er3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1991.8 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Er3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1796.2 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Er3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1455. eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Er3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1412. eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Er4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 436.85 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Er4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 357.04 eV!

- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Er4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 312.97 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Er4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 180.25 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Er4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 172.26 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Er4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.94 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: $e^- + e^- + Er4f7/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.76 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Er5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 56.73 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: $e^- + e^- + Er5p1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 34.73 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Er5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 29.06 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Er6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.48 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-069_Tm_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Tm + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Tm [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Tm [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Tm + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Tm [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Tm1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 59488. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Tm2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10081. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Tm2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9629.4 eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Tm2p3/2 / Cross section: (Error # 0): Threshold mismatch

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WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8638.1 eV!
```

- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Tm3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2277.4 eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2075.2 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Tm3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1865.1 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Tm3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1516. eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Tm3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1469.8 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Tm4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 453.73 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Tm4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 371.37 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Tm4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 323.87 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Tm4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 186.95 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Tm4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 178.33 eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.03 eV!

19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Tm4f7/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.74 eV!

20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Tm5s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 58.3 eV!

21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Tm5p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 35.58 eV!

22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Tm5p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 29.54 eV!

23. Calculated and tabulated thresholds don't agree reaction label 22: $e^- + e^- + Tm6s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.55 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

_e-070_Yb_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-070_Yb_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Yb + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Yb [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Yb [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Yb + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Yb [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Yb1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 61441. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Yb2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10454. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Yb2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9992.6 eV!

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8933.79999999999 eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Yb3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2368.1 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Yb3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2160.7 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Yb3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1935.2 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Yb3d3/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1578.1 eV!
```

- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Yb3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1528.5 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Yb4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 471. eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Yb4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 386.04 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Yb4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 334.92 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Yb4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 193.73 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Yb4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 184.44 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Yb4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.09 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Yb4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.67 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Yb5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 59.9 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Yb5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 36.44 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Yb5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 30.01 eV!

23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Yb6s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.61 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

____e-071_Lu_000.endf ____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-071_Lu_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Lu + gamma [bremsstrahlung] / Product: <math>e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Lu [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Lu [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Lu + gamma$ [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Lu [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

- 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Lu1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 63442. eV!
- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Lu2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10845. eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Lu2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10373. eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Lu2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9243.200000000001 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Lu3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2470.5 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Lu3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2258. eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Lu3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2016.1 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Lu3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1650.8 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Lu3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1597.8 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Lu4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 497.85 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Lu4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 410.19 eV!

- 15. Calculated and tabulated thresholds don't agree reaction label 14: $e^- + e^- + Lu4p3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 355.05 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Lu4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 209.38 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Lu4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 199.32 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Lu4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 18.96 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Lu4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 17.32 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Lu5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 66.34 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: $e^- + e^- + Lu5p1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 41.52 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Lu5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 34.22 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: $e^- + e^- + Lu5d3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.45 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Lu5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.03 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Lu6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.33 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

____e-072_Hf_000.endf ___

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-072_Hf_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Hf + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Hf [excitation] / Product: e- (Error # 0): Generic unimp (c)

 ${\tt WARNING:} \ \ {\tt Checking} \ \ {\tt not} \ \ {\tt yet} \ \ {\tt implemented} \ \ {\tt for} \ \ {\tt energyLoss} \ \ {\tt type} \ \ {\tt data}$

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Hf [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Hf + gamma \ [bremsstrahlung] \ / \ Cross \ section$: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Hf [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Hf1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 65482. eV!

- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Hf2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11245. eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Hf2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10763. eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Hf2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9558.29999999999 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Hf3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2576. eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Hf3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2358.1 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Hf3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2099. eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Hf3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1725.5 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Hf3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1668.7 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Hf4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 525.6900000000001 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Hf4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 435.27 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Hf4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 375.82 eV!

- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Hf4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 225.59 eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 214.71 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Hf4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 27.26 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Hf4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 25.4 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Hf5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 72.56 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Hf5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 46.34 eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 38.1 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Hf5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.75 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Hf5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.18 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Hf6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.86 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = $0 \dots [4 \text{ more lines}]$

_e-073_Ta_000.endf _____

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-073_Ta_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Ta + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Ta [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Ta [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^-+Ta+gamma~[bremsstrahlung]$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Ta [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Ta1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 67565. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Ta2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11656. eV!

- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Ta2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11163. eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Ta2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9879.200000000001 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: $e^- + e^- + Ta3s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2684.7 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Ta3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2461.4 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Ta3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2184.1 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Ta3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1802.3 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Ta3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1741.6 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Ta4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 554.65 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Ta4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 461.41 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Ta4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 397.36 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Ta4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 242.48 eV!

- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Ta4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 230.72 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: $e^- + e^- + Ta4f5/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 36.14 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Ta4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 34.04 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Ta5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 78.81 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Ta5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 51.15 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Ta5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 41.89 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: $e^- + e^- + Ta5d3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.01 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Ta5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.3 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Ta6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.31 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

1. Mislabled emitted particle Reading ENDF file: ../e-074_W_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + W + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + W [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + W [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + W + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + W [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + W1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 69689. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + W2s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12077. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + W2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11573. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + W2p3/2 / Cross section: (Error # 0): Threshold mismatch

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WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10206. eV!
```

- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + W3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2796.5 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + W3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2567.8 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + W3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2271.2 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + W3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1881.1 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + W3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1816.2 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + W4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 584.7 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + W4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 488.61 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + W4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 419.62 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + W4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 260.05 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + W4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 247.34 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + W4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 45.61 eV!

19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + W4f7/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 43.25 eV!

20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + W5s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 85.14 eV!

21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + W5p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 56.02 eV!

22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + W5p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 45.65 eV!

23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + W5d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.27 eV!

24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + W5d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.41 eV!

25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + W6s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.7 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [4 more lines]

__e-075_Re_000.endf _____

- fudge-4.0 Warnings:
 - Mislabled emitted particle Reading ENDF file: ../e-075_Re_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Re + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Re [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Re [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Re + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Re [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: $e^- + e^- + Re1s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 71856. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + Re2s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12508. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Re2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11993. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Re2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10538. eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Re3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2911.6 eV!

- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Re3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2677.4 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Re3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2360.5 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Re3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1961.8 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Re3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1892.7 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Re4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 615.83 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Re4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 516.83 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Re4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 442.59 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Re4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 278.26 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Re4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 264.54 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Re4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 55.64 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Re4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 52.99 eV!

20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Re5s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 91.569999999999 eV!

21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Re5p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 60.97 eV!

22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Re5p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 49.4 eV!

23. Calculated and tabulated thresholds don't agree reaction label 22: $e^- + e^- + Re5d3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.52 eV!

24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Re5d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.5 eV!

25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Re6s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.06 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

_e-076_0s_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-076_Os_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Os + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Os [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: $e^- + Os$ [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Os + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Os [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Os1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 74066. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + Os2s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12950. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Os2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12424. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Os2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10877. eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: $e^- + e^- + Os3s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3030. eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Os3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2790.2 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Os3p3/2 / Cross section: (Error # 0): Threshold mismatch

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WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2451.7 eV!
```

- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Os3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2044.5 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Os3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1970.9 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Os4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 648.03 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Os4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 546.0700000000001 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: $e^- + e^- + Os4p3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 466.23 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Os4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 297.08 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Os4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 282.29 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Os4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 66.209999999999 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Os4f7/2 / $Cross\ section$: (Error $\#\ 0$): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 63.26 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Os5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 98.12 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Os5p1/2 / Cross section: (Error <math># 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 66.01000000000001 eV!

22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Os5p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 53.15 eV!

23. Calculated and tabulated thresholds don't agree reaction label 22: $e^- + e^- + Os5d3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.79 eV!

24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Os5d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.6 eV!

25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Os6s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.39000000000001 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

__e-077_Ir_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-077_Ir_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Ir + gamma [bremsstrahlung] / Product: <math>e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Ir [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Ir [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Ir + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Ir [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Ir1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 76314. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Ir2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13396. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Ir2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12859. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Ir2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11214. eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Ir3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3145.7 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Ir3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2900.2 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Ir3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2539. eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Ir3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2123.2 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Ir3d5/2 / Cross section: (Error # 0): Threshold mismatch

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WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2044.8 eV!
```

- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Ir4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 675.3200000000001 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Ir4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 570.35 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Ir4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 484.55 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Ir4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 310.52 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Ir4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 294.58 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Ir4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 71.33 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Ir4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 68.06 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: $e^- + e^- + Ir5s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 99.14 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Ir5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 65.68000000000001 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Ir5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 51.66 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Ir5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.99 eV!

24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Ir5d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.79 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [4 more lines]

____e-078_Pt_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-078_Pt_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Pt + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Pt [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Pt [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Pt + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Pt [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

- 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Pt1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 78615. eV!
- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Pt2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13862. eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Pt2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13313. eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Pt2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11567. eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Pt3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3273.2 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Pt3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3022. eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Pt3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2636.9 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Pt3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2212.4 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Pt3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2129. eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Pt4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 712.21 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Pt4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 604.1900000000001 eV!

- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Pt4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 512.04 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Pt4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 333.1 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Pt4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 315.96 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Pt4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 85.489999999999 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Pt4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 81.87 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Pt5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 108.44 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Pt5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 73.34 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Pt5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 57.74 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Pt5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.02 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Pt5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.5399999999999 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Pt6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.07 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

____e-079_Au_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-079_Au_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Au + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Au [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Au [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Au + gamma$ [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Au [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Au1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 80960. eV!

- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Au2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14336. eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Au2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13776. eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e-+e-+Au2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11922. eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Au3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3401.4 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Au3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3144.3 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Au3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2734. eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2300.7 eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2212.2 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Au4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 747.4 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Au4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 636.28 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: $e^- + e^- + Au4p3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 537.39 eV!

- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Au4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 353.48 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Au4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 335.05 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Au4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 97.37 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Au4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 93.39 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Au5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 115.23 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Au5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 78.55 eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 61.37 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Au5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12.16 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: $e^- + e^- + Au5d5/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.46 eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.300000000000001 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = $0 \dots [4 \text{ more lines}]$

_e-080_Hg_000.endf _____

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-080_Hg_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Hg + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Hg [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Hg [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Hg + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Hg [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Hg1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 83353. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Hg2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14826. eV!

- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Hg2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14254. eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12287. eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Hg3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3536.8 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Hg3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3273.9 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Hg3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2836.9 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Hg3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2394.8 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Hg3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2300.8 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Hg4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 787.440000000001 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Hg4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 673.17 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Hg4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 567.13 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Hg4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 378.21 eV!

- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Hg4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 358.42 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Hg4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 113.5 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Hg4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 109.13 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Hg5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 125.73 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: $e^- + e^- + Hg5p1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 87.34 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Hg5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 68.3 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Hg5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 15.98 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Hg5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13.96 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Hg6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.550000000000000 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

1. Mislabled emitted particle Reading ENDF file: ../e-081_Tl_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Tl + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Tl [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Tl [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Tl + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Tl [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Tl1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 85798. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Tl2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 15330. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Tl2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14746. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Tl2p3/2 / Cross section: (Error # 0): Threshold mismatch

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WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12660. eV!
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- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Tl3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3678.7 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Tl3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3409.7 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Tl3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2944.6 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Tl3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2493.7 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Tl3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2393.9 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Tl4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 831.429999999999 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Tl4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 713.97 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Tl4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 600.3200000000001 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Tl4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 406.35 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Tl4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 385.13 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: $e^- + e^- + Tl4f5/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 132.95 eV!

- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Tl4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 128.16 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Tl5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 139.16 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Tl5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 99.03 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Tl5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 77.959999999999 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Tl5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 22.4 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Tl5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 20.01 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Tl6s1/2 / $Cross\ section$: (Error $\#\ 0$): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12.36 eV!
- 26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Tl6p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.46 eV!
- 27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + Tl6p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.3 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

1. Mislabled emitted particle Reading ENDF file: ../e-082_Pb_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Pb + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Pb [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Pb [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Pb + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Pb [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Pb1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 88290. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Pb2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 15847. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Pb2p1/2 / $Cross\ section$: ($Error\ \#\ 0$): $Threshold\ mismatch$

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 15251. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Pb2p3/2 / Cross section: (Error # 0): Threshold mismatch

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WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13040. eV!
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- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Pb3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3824.3 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Pb3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3549.3 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Pb3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3054.6 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Pb3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2594.7 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Pb3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2489. eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Pb4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 876.72 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Pb4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 756.02 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Pb4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 634.3 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Pb4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 435.23 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Pb4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 412.49 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Pb4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 153.04 eV!

- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Pb4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 147.81 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Pb5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 152.83 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Pb5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 110.91 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Pb5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 87.64 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Pb5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 28.81 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Pb5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 26.03 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Pb6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 15.05 eV!
- 26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Pb6p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7. eV!
- 27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + Pb6p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.29 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

1. Mislabled emitted particle Reading ENDF file: ../e-083_Bi_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Bi + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Bi [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Bi [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Bi + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Bi [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Bi1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 90832. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + Bi2s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 16376. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Bi2p1/2 / $Cross\ section$: ($Error\ \#\ 0$): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 15768. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Bi2p3/2 / Cross section: (Error # 0): Threshold mismatch

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WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13425. eV!
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- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Bi3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3973.9 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Bi3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3692.7 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Bi3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3166.9 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Bi3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2698. eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Bi3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2586. eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Bi4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 923.429999999999 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Bi4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 799.42999999999 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Bi4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 669.16 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Bi4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 464.95 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Bi4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 440.61 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Bi4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 173.87 eV!

- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Bi4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 168.17 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Bi5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 166.86 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Bi5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 123.12 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Bi5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 97.459999999999 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Bi5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 35.37 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Bi5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 32.17 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Bi6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 17.69 eV!
- 26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Bi6p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.6 eV!
- 27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + Bi6p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.35 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

1. Mislabled emitted particle Reading ENDF file: ../e-084_Po_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Po + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Po [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Po [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Po + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Po [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Po1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 93424. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Po2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 16918. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Po2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 16297. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Po2p3/2 / $Cross\ section$: ($Error\ \#\ 0$): $Threshold\ mismatch$

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WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13817. eV!
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- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Po3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4127.6 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Po3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3840.2 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Po3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3281.5 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: $e^- + e^- + Po3d3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2803.5 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Po3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2685.1 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Po4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 971.64 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Po4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 844.3 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Po4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 704.96 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Po4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 495.56 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Po4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 469.54 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Po4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 195.5 eV!

- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Po4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 189.3 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Po5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 181.34 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Po5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 135.73 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Po5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 107.52 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: $e^- + e^- + Po5d3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 42.16 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Po5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 38.51 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Po6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 20.33 eV!
- 26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Po6p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.25 eV!
- 27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + Po6p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.44 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

1. Mislabled emitted particle Reading ENDF file: ../e-085_At_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + At + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + At [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + At [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + At + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + At [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + At1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 96068. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + At2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 17473. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + At2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 16840. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + At2p3/2 / Cross section: (Error # 0): Threshold mismatch

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WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14215. eV!
```

- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + At3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4285.5 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + At3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3991.8 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + At3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3398.5 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + At3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2911.4 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + At3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2786.2 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + At4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1021.4 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + At4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 890.65 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + At4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 741.71 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + At4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 527.08 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + At4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 499.28 eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 217.93 eV!

- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + At4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 211.2 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + At5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 196.27 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + At5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 148.78 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + At5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 117.82 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + At5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 49.2 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + At5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 45.06 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + At6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23.01 eV!
- 26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + At6p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.94 eV!
- 27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + At6p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.5399999999999 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

1. Mislabled emitted particle Reading ENDF file: ../e-086_Rn_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Rn + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Rn [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Rn [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Rn + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Rn [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Rn1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 98764. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Rn2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 18042. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Rn2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 17396. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Rn2p3/2 / Cross section: (Error # 0): Threshold mismatch

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WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14619. eV!
```

- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Rn3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4447.7 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: $e^- + e^- + Rn3p1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4147.6 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Rn3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3517.9 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Rn3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3021.6 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Rn3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2889.3 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Rn4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1072.7 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Rn4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 938.51 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Rn4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 779.39 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Rn4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 559.5 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Rn4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 529.8200000000001 eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 241.16 eV!

- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Rn4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 233.87 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Rn5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 211.69 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Rn5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 162.29 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Rn5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 128.37 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: $e^- + e^- + Rn5d3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 56.49 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Rn5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 51.84 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Rn6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 25.72 eV!
- 26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Rn6p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13.69 eV!
- 27. Calculated and tabulated thresholds don't agree reaction label 26: $e^- + e^- + Rn6p3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.640000000000001 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

1. Mislabled emitted particle Reading ENDF file: ../e-087_Fr_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Fr + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Fr [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Fr [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Fr + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Fr [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Fr1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 101520. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Fr2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 18630. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Fr2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 17971. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Fr2p3/2 / $Cross\ section$: ($Error\ \#\ 0$): Threshold mismatch

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WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 15034. eV!
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- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Fr3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4619.1 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Fr3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4312.5 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Fr3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3644.5 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Fr3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3138.9 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Fr3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2999.2 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Fr4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1130.3 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Fr4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 992.690000000001 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Fr4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 822.8 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Fr4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 597.6 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Fr4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 565.95 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: $e^- + e^- + Fr4f5/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 269.95 eV!

- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Fr4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 262.07 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Fr5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 232.34 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Fr5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 181. eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Fr5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 143.91 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: $e^- + e^- + Fr5d3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 68.73 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Fr5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 63.52 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Fr6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 32.64 eV!
- 26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Fr6p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 19.28 eV!
- 27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + Fr6p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14.14 eV!
- 28. Calculated and tabulated thresholds don't agree reaction label 27: e- + e- + Fr7s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3.8 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = $0 \dots [4 \text{ more lines}]$

_e-088_Ra_000.endf _____

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-088_Ra_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Ra + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Ra [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Ra [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Ra + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Ra [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Ra1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 104320. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Ra2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 19232. eV!

- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Ra2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 18560. eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Ra2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 15456. eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Ra3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4795.1 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Ra3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4482. eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Ra3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3773.7 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Ra3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3258.7 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Ra3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3111.3 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Ra4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1189.7 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Ra4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1048.6 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Ra4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 867.309999999999 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: $e^- + e^- + Ra4d3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 636.77 eV!

- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Ra4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 603.059999999999 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Ra4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 299.7 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Ra4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 291.19 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Ra5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 253.63 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Ra5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 200.32 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Ra5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 159.83 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Ra5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 81.319999999999 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: $e^- + e^- + Ra5d5/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 75.52 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Ra6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 39.54 eV!
- 26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Ra6p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 24.88 eV!
- 27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + Ra6p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 18.62 eV!

28. Calculated and tabulated thresholds don't agree reaction label 27: e- + e- + Ra7s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.73 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [4 more lines]

____e-089_Ac_000.endf ____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-089_Ac_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Ac + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Ac [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Ac [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Ac + gamma$ [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Ac [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

- 4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Ac1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 107190. eV!
- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Ac2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 19848. eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Ac2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 19163. eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Ac2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 15883. eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Ac3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4974.3 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Ac3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4654.7 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Ac3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3903.9 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Ac3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3379.6 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Ac3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3224.1 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Ac4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1249.5 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Ac4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1104.8 eV!

- 15. Calculated and tabulated thresholds don't agree reaction label 14: $e^- + e^- + Ac4p3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 911.4400000000001 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Ac4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 675.51 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Ac4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 639.62 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Ac4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 328.9 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: $e^- + e^- + Ac4f7/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 319.74 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Ac5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 274.1 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: $e^- + e^- + Ac5p1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 218.79 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Ac5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 174.66 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: $e^- + e^- + Ac5d3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 92.819999999999 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Ac5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 86.38 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Ac6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 45.17 eV!

26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Ac6p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 29.31 eV!

27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + Ac6p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 21.95 eV!

28. Calculated and tabulated thresholds don't agree reaction label 27: e- + e- + Ac6d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.49 eV!

29. Calculated and tabulated thresholds don't agree reaction label 28: e- + e- + Ac6d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4. eV!

30. Calculated and tabulated thresholds don't agree reaction label 29: e- + e- + Ac7s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.41 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

__e-090_Th_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-090_Th_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Th + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Th [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Th [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Th + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Th [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: $e^- + e^- + Th1s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 110110. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Th2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 20478. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Th2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 19780. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Th2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 16315. eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: $e^- + e^- + Th3s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5157.9 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Th3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4831.6 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Th3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4036.2 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Th3d3/2 / Cross section: (Error # 0): Threshold mismatch

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WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3502.4 eV!
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- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Th3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3338.6 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Th4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1310.6 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Th4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1162.3 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Th4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 956.16 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Th4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 714.809999999999 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Th4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 676.64 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Th4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 358.55 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Th4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 348.69 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Th5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 294.76 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Th5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 237.43 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Th5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 189.41 eV!

23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Th5d3/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 104.23 eV! 24. Calculated and tabulated thresholds don't agree reaction label 23: $e^{-} + e^{-} + Th5d5/2$ / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 97.11 eV! 25. Calculated and tabulated thresholds don't agree reaction label 24: $e^- + e^- + Th6s1/2 / Cross$ section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 50.55 eV! 26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Th6p1/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 33.52 eV! 27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + Th6p3/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 25.01 eV! 28. Calculated and tabulated thresholds don't agree reaction label 27: e- + e- + Th6d3/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.62 eV! 29. Calculated and tabulated thresholds don't agree reaction label 28: e- + e- + Th6d5/2 / Cross section: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.98 eV! 30. Calculated and tabulated thresholds don't agree reaction label 29: $e^- + e^- + Th7s1/2 / Cross section$: (Error # 0): Threshold mismatch WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.97 eV! • xsectplotter Warnings: 1. Mislabled emitted particle Error: ZAP messed up stderr while processing crossSection WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

_____e-091_Pa_000.endf _____

• fudge-4.0 Warnings:

1. Mislabled emitted particle Reading ENDF file: ../e-091_Pa_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Pa + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Pa [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Pa [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Pa + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Pa [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: $e^- + e^- + Pa1s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 113080. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + Pa2s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 21113. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Pa2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 20402. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Pa2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 16743. eV!

- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Pa3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5334.9 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Pa3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5001.8 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Pa3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4159.4 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Pa3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3616.1 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: $e^- + e^- + Pa3d5/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3443.6 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Pa4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1362.1 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Pa4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1210.1 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Pa4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 990.5700000000001 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Pa4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 743.75 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Pa4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 703.21 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Pa4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 377.63 eV!

- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Pa4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 367.04 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Pa5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 305.17 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Pa5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 245.89 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Pa5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 194.07 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: $e^- + e^- + Pa5d3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 106.08 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Pa5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 98.40000000000001 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Pa5f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.64 eV!
- 26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Pa5f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.8 eV!
- 27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + Pa6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 50.01 eV!
- 28. Calculated and tabulated thresholds don't agree reaction label 27: e- + e- + Pa6p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 32.61 eV!
- 29. Calculated and tabulated thresholds don't agree reaction label 28: e- + e- + Pa6p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23.82 eV!

30. Calculated and tabulated thresholds don't agree reaction label 29: e- + e- + Pa6d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.71 eV!

31. Calculated and tabulated thresholds don't agree reaction label 30: e- + e- + Pa6d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.13 eV!

32. Calculated and tabulated thresholds don't agree reaction label 31: e- + e- + Pa7s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.67 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

_e-092_U_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-092_U_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + U + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + U [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + U [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + U + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + U [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + U1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 116110. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + U2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 21768. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + U2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 21044. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + U2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 17182. eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + U3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5521.3 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + U3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5181.5 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + U3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4289.6 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + U3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3736.8 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + U3d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3555.2 eV!

- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + U4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1419.9 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + U4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1264.2 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + U4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1030.5 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + U4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 778.179999999999 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + U4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 735.14 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + U4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 402.09 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + U4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 390.75 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + U5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 320.65 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + U5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 259.38 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + U5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 203.39 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + U5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 112.35 eV!

- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + U5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 104.02 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + U5f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.91 eV!
- 26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + U5f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.95 eV!
- 27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + U6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 52.23 eV!
- 28. Calculated and tabulated thresholds don't agree reaction label 27: $e^- + e^- + U6p1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 34.09 eV!
- 29. Calculated and tabulated thresholds don't agree reaction label 28: e- + e- + U6p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 24.57 eV!
- 30. Calculated and tabulated thresholds don't agree reaction label 29: $e^- + e^- + U6d3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.74 eV!
- 31. Calculated and tabulated thresholds don't agree reaction label 30: e- + e- + U6d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.13 eV!
- 32. Calculated and tabulated thresholds don't agree reaction label 31: e- + e- + U7s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.78 eV!
- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

1. Mislabled emitted particle Reading ENDF file: ../e-093_Np_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Np + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Np [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Np [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Np + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Np [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Np1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.192e5 eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Np2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 22440. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Np2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 21702. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Np2p3/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 17626. eV!
```

- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Np3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5712.2 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: $e^- + e^- + Np3p1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5365.5 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: $e^- + e^- + Np3p3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4421.6 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Np3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3859.2 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Np3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3668.1 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Np4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1478.9 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Np4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1319.5 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Np4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1070.8 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Np4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 812.940000000001 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Np4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 767.29 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Np4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 426.75 eV!

- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Np4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 414.6 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Np5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 336.25 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e-+e-+Np5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 272.95 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Np5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 212.56 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: $e^- + e^- + Np5d3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 118.48 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Np5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 109.47 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Np5f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.12 eV!
- 26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Np5f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.0299999999999 eV!
- 27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + Np6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 54.39 eV!
- 28. Calculated and tabulated thresholds don't agree reaction label 27: e- + e- + Np6p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 35.52 eV!
- 29. Calculated and tabulated thresholds don't agree reaction label 28: e- + e- + Np6p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 25.25 eV!

30. Calculated and tabulated thresholds don't agree reaction label 29: e- + e- + Np6d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.75 eV!

31. Calculated and tabulated thresholds don't agree reaction label 30: $e^- + e^- + Np6d5/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.11 eV!

32. Calculated and tabulated thresholds don't agree reaction label 31: e- + e- + Np7s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.88 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

_e-094_Pu_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-094_Pu_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Pu + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Pu [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Pu [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Pu + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Pu [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Pu1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 122350. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Pu2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23122. eV!

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 22371. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Pu2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 18071. eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Pu3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5902.1 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Pu3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5548.5 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Pu3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4549.9 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Pu3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3977.8 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Pu3d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3776.9 eV!

- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Pu4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1533.7 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Pu4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1370.5 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: $e^- + e^- + Pu4p3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1106. eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Pu4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 842.55 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Pu4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 794.17 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Pu4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 446.08 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Pu4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 433.09 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Pu5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 346.64 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Pu5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 281.33 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Pu5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 216.42 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Pu5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 119.5 eV!

24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Pu5d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 109.85 eV!

25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Pu5f5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.4 eV!

26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Pu5f7/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.25 eV!

27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + Pu6s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 53.12 eV!

28. Calculated and tabulated thresholds don't agree reaction label 27: $e^- + e^- + Pu6p1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 33.92 eV!

29. Calculated and tabulated thresholds don't agree reaction label 28: e- + e- + Pu6p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23.42 eV!

30. Calculated and tabulated thresholds don't agree reaction label 29: e- + e- + Pu7s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.42 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [4 more lines]

__e-095_Am_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-095_Am_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Am + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Am [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Am [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Am + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Am [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Am1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 125570. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + Am2s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23827. eV!

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23062. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + 4m2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 18527. eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: $e^- + e^- + Am3s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6102.1 eV!

- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Am3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5741.6 eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4685.5 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Am3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4103.6 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Am3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3892.5 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: $e^- + e^- + Am4s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1595.2 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Am4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1428.2 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Am4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1147. eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Am4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 877.9 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Am4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 826.679999999999 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Am4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 471.03 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Am4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 457.17 eV!

- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Am5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 362.44 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: $e^- + e^- + Am5p1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 295.06 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Am5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 225.25 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Am5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 125.29 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Am5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 114.9 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Am5f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.2899999999999 eV!
- 26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Am5f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7. eV!
- 27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + Am6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 55.06 eV!
- 28. Calculated and tabulated thresholds don't agree reaction label 27: e- + e- + Am6p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 35.14 eV!
- 29. Calculated and tabulated thresholds don't agree reaction label 28: e- + e- + Am6p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23.89 eV!
- 30. Calculated and tabulated thresholds don't agree reaction label 29: e- + e- + Am7s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.49 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

____e-096_Cm_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-096_Cm_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Cm + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Cm [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Cm [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Cm + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Cm [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Cm1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 128860. eV!

- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Cm2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 24554. eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Cm2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23776. eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Cm2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 18994. eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Cm3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6313.1 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Cm3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5945.6 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Cm3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4829. eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Cm3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4237.2 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Cm3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4015.6 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Cm4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1664.1 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Cm4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1493.2 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Cm4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1194.4 eV!

- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Cm4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 919.64 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Cm4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 865.4400000000001 eV!
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 502.25 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Cm4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 487.47 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Cm5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 384.3 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Cm5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 314.8 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Cm5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 239.65 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Cm5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 136.46 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Cm5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 125.23 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Cm5f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13.48 eV!
- 26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Cm5f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.95 eV!

27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + Cm6s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 60.69 eV!

28. Calculated and tabulated thresholds don't agree reaction label 27: $e^- + e^- + Cm6p1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 39.64 eV!

29. Calculated and tabulated thresholds don't agree reaction label 28: e- + e- + Cm6p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 27. eV!

30. Calculated and tabulated thresholds don't agree reaction label 29: e- + e- + Cm6d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.65 eV!

31. Calculated and tabulated thresholds don't agree reaction label 30: e- + e- + Cm6d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3.93 eV!

32. Calculated and tabulated thresholds don't agree reaction label 31: e- + e- + Cm7s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.18 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

_e-097_Bk_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-097_Bk_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Bk + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Bk [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: $e^- + Bk$ [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Bk + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Bk [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Bk1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 132210. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: $e^- + e^- + Bk2s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 25294. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Bk2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 24503. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Bk2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 19462. eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: $e^- + e^- + Bk3s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6523.3 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Bk3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6148.8 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Bk3p3/2 / Cross section: (Error # 0): Threshold mismatch

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WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4968.6 eV!
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- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Bk3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4366.9 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Bk3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4134.3 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Bk4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1728.8 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Bk4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1554. eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Bk4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1236.6 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Bk4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 956.12 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Bk4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 898.8200000000001 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Bk4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 528.02 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Bk4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 512.27 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Bk5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 400.87 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: $e^- + e^- + Bk5p1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 329.26 eV!

- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Bk5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 248.62 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Bk5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 142.39 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e-+e-+Bk5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 130.35 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Bk5f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14.53 eV!
- 26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Bk5f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12.84 eV!
- 27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + Bk6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 62.79 eV!
- 28. Calculated and tabulated thresholds don't agree reaction label 27: e- + e- + Bk6p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 41.01 eV!
- 29. Calculated and tabulated thresholds don't agree reaction label 28: e- + e- + Bk6p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 27.51 eV!
- 30. Calculated and tabulated thresholds don't agree reaction label 29: e- + e- + Bk6d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.6 eV!
- 31. Calculated and tabulated thresholds don't agree reaction label 30: e- + e- + Bk6d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3.85 eV!
- 32. Calculated and tabulated thresholds don't agree reaction label 31: e- + e- + Bk7s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.28 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

___e-098_Cf_000.endf _____

- fudge-4.0 Warnings:
 - Mislabled emitted particle Reading ENDF file: ../e-098_Cf_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Cf + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Cf [excitation] / Product: e- (Error # 0): Generic unimp (c)

 ${\tt WARNING: \ Checking \ not \ yet \ implemented \ for \ energyLoss \ type \ data}$

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Cf [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: $e^- + Cf + gamma \ [bremsstrahlung] \ / \ Cross \ section$: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Cf [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Cf1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 135630. eV!

- 5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Cf2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 26047. eV!
- 6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Cf2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 25242. eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Cf2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 19929. eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Cf3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6732.5 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Cf3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6350.9 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Cf3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5103.8 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Cf3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4492.2 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Cf3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4248.1 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Cf4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1788.7 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Cf4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1609.9 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Cf4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1272.9 eV!

- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Cf4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 986.74 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Cf4d5/2 / Cross section: (Error <math># 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 926.2 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Cf4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 547.73 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Cf4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 530.98 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Cf5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 411.58 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Cf5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 337.87 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Cf5p3/2 / Cross section: (Error <math># 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 251.58 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Cf5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 142.47 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Cf5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 129.66 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Cf5f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.78 eV!
- 26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Cf5f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.02 eV!

27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + Cf6s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 60.88 eV!

28. Calculated and tabulated thresholds don't agree reaction label 27: $e^- + e^- + Cf6p1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 38.79 eV!

29. Calculated and tabulated thresholds don't agree reaction label 28: e- + e- + Cf6p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 25.1 eV!

30. Calculated and tabulated thresholds don't agree reaction label 29: e- + e- + Cf7s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.71 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle $Error: ZAP \ messed \ up$

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 ... [4 more lines]

__e-099_Es_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-099_Es_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Es + gamma [bremsstrahlung] / Product: <math>e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Es [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Es [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Es + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Es [excitation] / Eross section: (Error # E0): E1. Threshold E2 mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Es1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 139110. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Es2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 26824. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Es2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 26007. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Es2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 20409. eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: e- + e- + Es3s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6953.1 eV!

9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Es3p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6564.6 eV!

10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Es3p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5247.2 eV!

11. Calculated and tabulated thresholds don't agree reaction label 10: $e^- + e^- + Es3d3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4625.5 eV!

12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Es3d5/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4369.6 eV!
```

- 13. Calculated and tabulated thresholds don't agree reaction label 12: e- + e- + Es4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1856.3 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Es4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1673.6 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Es4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1315.9 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Es4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1024. eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Es4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 960.0700000000001 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Es4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 573.92999999999 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Es4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 556.13 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Es5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 428.63 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Es5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 352.76 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Es5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 260.36 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: e- + e- + Es5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 148.17 eV!

24. Calculated and tabulated thresholds don't agree reaction label 23: e- + e- + Es5d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 134.48 eV!

25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Es5f5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.54 eV!

26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Es5f7/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.6099999999999 eV!

27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + Es6s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 62.85 eV!

28. Calculated and tabulated thresholds don't agree reaction label 27: $e^- + e^- + Es6p1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 40.02 eV!

29. Calculated and tabulated thresholds don't agree reaction label 28: $e^- + e^- + Es6p3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 25.44 eV!

30. Calculated and tabulated thresholds don't agree reaction label 29: e- + e- + Es7s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.78 eV!

- xsectplotter Warnings:
 - 1. Mislabled emitted particle Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [4 more lines]

__e-100_Fm_000.endf _____

- fudge-4.0 Warnings:
 - 1. Mislabled emitted particle Reading ENDF file: ../e-100_Fm_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0

2. FIXME: Generic fudge unimplemented message reaction label 1: e- + Fm + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

3. FIXME: Generic fudge unimplemented message reaction label 2: e- + Fm [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: e- + Fm [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

2. Calculated and tabulated thresholds don't agree reaction label 1: e- + Fm + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

3. Calculated and tabulated thresholds don't agree reaction label 2: e- + Fm [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!

4. Calculated and tabulated thresholds don't agree reaction label 3: e- + e- + Fm1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 142680. eV!

5. Calculated and tabulated thresholds don't agree reaction label 4: e- + e- + Fm2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 27622. eV!

6. Calculated and tabulated thresholds don't agree reaction label 5: e- + e- + Fm2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 26792. eV!

7. Calculated and tabulated thresholds don't agree reaction label 6: e- + e- + Fm2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 20894. eV!

8. Calculated and tabulated thresholds don't agree reaction label 7: $e^- + e^- + Fm3s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7179.7 eV!

- 9. Calculated and tabulated thresholds don't agree reaction label 8: e- + e- + Fm3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6784. eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 9: e- + e- + Fm3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5392.6 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 10: e- + e- + Fm3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4760.8 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 11: e- + e- + Fm3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4492.7 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 12: $e^- + e^- + Fm4s1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1925.8 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 13: e- + e- + Fm4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1739. eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 14: e- + e- + Fm4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1359.6 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 15: e- + e- + Fm4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1061.8 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 16: e- + e- + Fm4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 994.36 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 17: e- + e- + Fm4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 600.52 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 18: e- + e- + Fm4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 581.62 eV!

- 20. Calculated and tabulated thresholds don't agree reaction label 19: e- + e- + Fm5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 446.11 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 20: e- + e- + Fm5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 368.06 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 21: e- + e- + Fm5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 269.17 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 22: $e^- + e^- + Fm5d3/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 153.89 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 23: $e^- + e^- + Fm5d5/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 139.29 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 24: e- + e- + Fm5f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12.29 eV!
- 26. Calculated and tabulated thresholds don't agree reaction label 25: e- + e- + Fm5f7/2 / Cross section: (Error <math># 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.18 eV!
- 27. Calculated and tabulated thresholds don't agree reaction label 26: e- + e- + Fm6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 64.8499999999999 eV!
- 28. Calculated and tabulated thresholds don't agree reaction label 27: $e^- + e^- + Fm6p1/2$ / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 41.27 eV!
- 29. Calculated and tabulated thresholds don't agree reaction label 28: e- + e- + Fm6p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 25.77 eV!
- 30. Calculated and tabulated thresholds don't agree reaction label 29: e- + e- + Fm7s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.85 eV!

• xsectplotter Warnings:

 $\begin{array}{ccc} 1. & {\rm Mislabled~emitted~particle} \\ & \textit{Error:~ZAP~messed~up} \end{array}$

 ${\tt stderr} \ {\tt while} \ {\tt processing} \ {\tt crossSection}$

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0 \dots [4 more lines]